TED SCHWINDEN, GOVERNOR

MONTANA STATE LIBRARY BUILDING

## STATE OF MONTANA

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#### 18 JUNE 1986

#### PLANT SPECIES OF SPECIAL CONCERN

The Montana Natural Heritage Program (MTNHP) is inventorying the elements of natural diversity of Montana. The inventory includes plant species, animal species, and plant associations which are rare, endemic, disjunct, threatened, or endangered throughout their range or in Montana, vulnerable to extirpation from Montana, or in need of further research.

The attached list of 376 plant taxa of special concern in Montana represents the list which is guiding data acquisition by the MTNHP. It has been developed largely from information supplied by the Montana Rare Plant Project (University of Montana, Missoula, MT), as well as from the scientific literature and herbarium specimens. Field research will be initiated during 1986. This list is dynamic, and will be annually revised as new data become available to MTNHP.

Written comments and suggestions are welcomed on this list, particularly regarding additions or deletions, specific locational information, and general comments for the improvement of the list. After initial data are entered, MTNHP will be able to supply location information and status data for most of these taxa (estimated date: FEB87).

Plant taxa are ranked by a standardized procedure used in thirty-five other heritage programs. They are ranked on the basis of their range-wide or global rarity, and on their rarity within the specific state, using these ranking categories:

GLOBAL RANK	Definition
G1	Critically imperiled globally because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction. (Critically endangered throughout range).
G2	Imperiled globally because of rarity (6 to 20 occurrences) or because of other factors demonstrably making it very vulnerable to extinction throughout its range. (Endangered throughout range).

- Either very rare and local throughout its range or found locally (even abundant at some of its locations) in a restricted range, or because of other factors making it vulnerable to extinction throughout its range; in the range of 21 to 100 occurrences. (Threatened throughout range).
- G4 Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- GU Possibly in peril range-wide, but status uncertain; more information needed.
- GH Historically known; may be rediscovered.
- GX Believed to be extinct throughout range; historical records only, continue search.

## STATE RANK Definition

- Critically imperiled in Montana because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extirpation from the state. (Critically endangered in state).
- Imperiled in Montana because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extirpation from the state. (Endangered in state).
- Rare in Montana (on the order of 20+ occurrences).

  (Threatened in state).
- S4 Apparently secure in Montana.
- S5 Demonstrably secure in Montana.
- SU Possibly in peril in Montana, but status uncertain; more information needed.
- SH Historically known in Montana; may be rediscovered.
- SX Apparently extirpated from Montana.

#### Other codes:

Q Taxonomic questions or problems involved; more

information needed.

T Rank for a subspecific taxon (subspecies or variety); appended to the global rank for the full species.

It should be emphasized that many of the global and state ranks are currently being revised or completed; these updated rankings will appear on revised lists beginning in Spring, 1986.

The symbols utilized in the Federal Status column denote the categories defined in the U.S. Fish and Wildlife Service Notices of Review (1980, 1983, 1985).

E	Endangered	(none	in	Montana).
T	Threatened	(none	in	Montana).

P Proposed E or T (none in Montana).

C1 Notice of Review, Category 1 (substantial biological information on file to support the appropriateness of proposing to list as endangered or threatened).

Notice of Review, Category 2 (current information indicates that proposing to list as endangered or threatened is possibly appropriate, but substantial biological information is not on file to support an immediate ruling).

C2\* Category 2, and the taxon is possibly extinct.

3A Taxa for which the USFWS has persuasive evidence of extinction.

3B Names that, on the basis of current taxonomic understanding, do not represent taxa meeting the Endangered Species Act's definition of "species."

3C Taxa that have proven to be more abundant or widespread than was previously believed, and/or those that are not subject to any identifiable threat.

This list, as with those of other state heritage inventories, follows the standard nomenclature of Kartesz (1985, in preparation).

#### Selected references:

Dorn, R.D. 1984. Vascular plants of Montana. Mountain West Publishing, Cheyenne, WY. 276 pp.

Federal Register, 1980. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or threatened species. 45(242): 82480-82569. 15 December 1980.

Federal Register, 1983. Endangered and threatened wildlife and plants: Supplement to review of plant taxa for listing; proposed rule. 48(227): 53640-53670. 28 November 1983.

Federal Register, 1985. Endangered and threatened wildlife and plants: Review of plant taxa for listing as endangered or

threatened species; Notice of review. 50(188): 39525-39584. 27 September 1985.

Kartesz, J.T. 1985. Vascular plant checklist (draft revised). In preparation.

Lesica, P., G. Moore, K.M. Peterson, and J.H. Rumely (Montana Rare Plant Project). 1984. Vascular plants of limited distribution in Montana. Vol. 43, Monograph No. 2, Montana Academy of Sciences, Supplement to the Proceedings. 61 pp.

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
ACHILLEA SIBIRICA	PDAST#3#6#	ASTERACEAE	6?	S1	
ADOXA MOSCHATELLINA	PDAD001010	ADOXACEAE	65	SI	
AGASTACHE CUSICKII	PDLAMØ3Ø3Ø	LANIACEAE	6364	SI	3C
AGASTACHE FOENICULUM	PDLAM63646	LAMIACEAE	6?	SU	
AGOSERIS SP 1	PDAST@9X1@	ASTERACEAE	6?	SI	
AGROSTIS MERTENSII	PMPOA646T6	POACEAE	65	<b>S1</b>	
ALLIUM ACUNINATUM	PMLIL#2#2#	LILIACEAE	6465	SI	
ALLIUM FIBRILLUM	PHLIL@2010	LILIACEAE	6?	51	
ALLIUM PARVUM	PMLIL#21PØ	LILIACEAE	6?	SI	
ALLIUM SIMILLIMUM		LILIACEAE	6?	S152	
ALLOTROPA VIRGATA	PDERIG1616	ERICACEAE	64	Si	
AMARANTHUS CALIFORNICUS	PDAMA646A6	ANARANTHACEAE	6?	SI	
AMBROSIA TOMENTOSA	PDASTØCØPØ	ASTERACEAE	6?	SU	
AMERORCHIS ROTUNDIFOLIA	PMORCØ1010	ORCHIDACEAE	65	51	
ANMANNIA COCCINEA	PDLYTØ1920	LYTHRACEAE	6?	51	
AMORPHA CANESCENS	PDFABØ8020		65	SISX	
ANTENNARIA AROMATICA		ASTERACEAE	6263	52	CS
ANTENNARIA PLANTAGINIFOLIA		ASTERACEAE	65	SU	
ANTENNARIA PULCHERRIMA		ASTERACEAE	6?	51	
AQUILEGIA BREVISTYLA	PDRANØ502Ø	RANUNCULACEAE	65	S1	
AQUILEGIA FORMOSA	PDRANØ5ØBØ	RANUNCULACEAE	6?	Si	
AQUILEGIA JONESII	PDRANØ5ØDØ	RANUNCULACEAE	6365	53	30
ARABIS FECUNDA	PDBRAØ629Ø	BRASSICACEAE	61	SI	
ARABIS LIGNIFERA	PDBRAØ612Ø	BRASSICACEAE	6?	SI	
ARCTOSTAPHYLOS PATULA	PDER194139		6?	SI	
ARENARIA KINGII		CARYOPHYLLACEAE	6?	SU	
ARTEMISIA NORVEGICA VAR SAXATILIS		ASTERACEAE	6?	SI	
ARTEMISIA PEDATIFIDA		ASTERACEAE	6?	52	
ARTEMISIA SPINESCENS		ASTERACEAE	6?	S2	
ASCLEPIAS STENOPHYLLA		ASCLEPIADACEAE	6365	Si	
ASPLENIUM TRICHOMANES		ASPLENIACEAE	65	SI	
ASTER FRONDOSUS		ASTERACEAE	6?	SU	
ASTRAGALUS ARETIDIDES	PDFABØFØRØ		64	S2	
ASTRAGALUS ARGOPHYLLUS VAR ARGOPHYLLUS	PDFAB@F@S1		6?	SI	
ASTRAGALUS BARRII	PDFABØF15Ø		6563		CS
ASTRAGALUS CERAMICUS VAR APUS	PDFAB@F1V1		6413	SI	30
ASTRAGALUS CHAMAELEUCE	PDFAB@F1X@		65	SI	
ASTRAGALUS CONVALLARIUS	PDFAB@F2D@	FABACEAE	65	51	
ASTRAGALUS GEYERI	PDFAB@F3M@		65	51	
ASTRAGALUS GRAYI	PDFAB@F3V@	FABACEAE	6?	SI	
ASTRAGALUS HYALINUS	PDFABØF46Ø		63	52	
ASTRAGALUS LENTIGINOSUS VAR SALINUS	PDFABØF4QR		6?	51	
	PDFABØF4PØ		64	SUS1	
ASTRAGALUS MOLYBDENUS	PDFAB@F5he		6?	51	
ASTRAGALUS DREGANUS	PDFABØF6DØ			SI	
ASTRAGALUS PLATTENSIS	PDFAB@F6W@		64	5253	
ASTRAGALUS PLATYTROPIS	PDFAB@F6X@		6?	SU	
	PDFABØF7C1		6?	SU	
ASTRAGALUS SCAPHOIDES	PDFABØF7VØ		62	S1	C5
ASTRAGALUS TERMINALIS	PDFAB@F8U@	FABACEAE	6364	<b>S</b> 2	

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
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ATHYSANUS PUSILLUS BACOPA ROTUNDIFOLIA BALSAMORHIZA MACROPHYLLA BIDENS TRIPARTITA BIDENS VULGATA VAR SCHIZANTHA BOTRYCHIUM CRENULATUM BOTRYCHIUM HESPERIUM BOTRYCHIUM HINGANENSE BOTRYCHIUM PARADOXUM BRASENIA SCHREBERI BULBOSTYLIS CAPILLARIS CALAMAGROSTIS THEEDYI CAMISSONIA ANDINA CAMISSONIA MINOR CAMISSONIA SCAPOIDEA SSP BRACHYCARPA CAREX AMPLIFOLIA CAREX CHORDORRHIZA CAREX COMOSA	BBBB 4 4 D 4 4 4		**		
ATHYSANUS PUSILLUS	PDBRA98919	BRASSIÇACEAE	6?	SI	
BACOPA ROTUNDIFOLIA	PDSCR06080	SCROPHULARIACEAE			
BALSAMORHIZA MACROPHYLLA	PDAST11070	ASTERACEAE	6365		
BIDENS TRIPARTITA	PDAST181LØ	ASTERACEAE		-	
BIDENS VULGATA VAR SCHIZANTHA	PDAST181N1	ASTERACEAE			
BOTRYCHIUM CRENULATUM	PPOPHØ1ØLØ	OPHIOGLOSSACEAE			C5
BOTRYCHIUM HESPERIUM	PPOPHØ1000	OPHIO6LOSSACEAE		SU	
BOTRYCHIUM MINGANENSE	PPOPHØ1ØRØ	OPHIOGLOSSACEAE	6364		
BOTRYCHIUM MONTANUM	PPOPHØ1ØKØ	OPHIOGLOSSACEAE	6563		
BOTRYCHIUM PARADOXUM	PPOPHØ1ØJØ	OPHIOGLOSSACEAE		SI	C5
BRASENIA SCHREBERI	PDNYM91919	NYMPHAEACEAE	65		
BULBOSTYLIS CAPILLARIS	PMCYP#2#2#	CYPERACEAE	65	Si	
CALAMAGROSTIS TWEEDYI	PMP0A17150		6264		CS
CAMISSONIA ANDINA	PDONA#3#1#	ONAGRACEAE	64	SI	
CAMISSONIA MINOR	PDONA@311@	ONAGRACEAE		SI	
CAMISSONIA SCAPOIDEA SSP BRACHYCARPA	PDONAØ3161	ONAGRACEAE		51	
CARDAMINE RUPICOLA	PDBRAGK130	BRASSICACEAE	6264	52	30
CAREX AMPLIFOLIA	PMCYP#3#N#	CYPERACEAE CYPERACEAE	6?	SI	
CAREX CHORDORRHIZA	PMCYP#32U#	CYPERACEAE	65	SI	
CAREX COMOSA	PMCYPØ32YØ	CYPERACEAE	65	S1	
CAREX CRAWEI	PUCAL DE 3398	CYPERACEAE	65	Si	
CAREX EURYCARPA		CYPERACEAE		S1?	
		CYPERACEAE		\$152	
		CYPERACEAE		51	30
CAREX INCURVIFORMIS VAR DANAENSIS	PMCYP#3661	CYPERACEAE	6?	SI	
CAREX LENTICULARIS VAR DOLIA	PMCYPØ37A3	CYPERACEAE	65T2	51	CS
CAREX LIVIDA	PMCYPØ37LØ	CYPERACEAE	65	51	
CAREX MICROGLOCHIN	PHCYPØ38KØ	CYPERACEAE	65?	SU	
CAREX MISANDRA	PNCYPØ38NØ	CYPERACEAE	6?	52	
CAREX MULTICOSTATA	PMCYPØ38YØ	CYPERACEAE	6?	51	
CAREX OCCIDENTALIS	PNCYP039N0	CYPERACEAE	6?	SU	
CAREX PAUPERCULA	PMCYPØ3A7Ø	CYPERACEAE	65	S1S3	
CAREX PETRICOSA	PMCYP#3AF#	CYPERACEAE	6?	SI	
CAREX SCOPARIA	PMCYP#3C9#	CYPERACEAE	65	S2?	
CAREX STENOPTILA	PMCYP#3CX#	CYPERACEAE	6?	SU	
CAREX SYCHNOCEPHALA	PMCYPØ3DEØ	CYPERACEAE	6365	SI	
CAREX TINCTA	PMCYPØ3DQØ	CYPERACEAE	6465	SU	
CAREX TORREYI	PMCYP#3DT#	CYPERACEAE	6365	S1	
CAREX VALLICOLA	PHCYP@3EA@	CYPERACEAE	6?	SU	
CASTILLEJA ANGUSTIFOLIA	PDSCRØDØ2Ø	SCROPHULARIACEAE	6365	S1S2?	
CASTILLEJA COVILLEANA	PDSCRØDØKØ	SCROPHULARIACEAE	6?	SI	
CASTILLEJA EXILIS	PDSCRØDØNØ	SCROPHULARIACEAE	6?	SU	
CASTILLEJA GRACILLIMA	PDSCRØD150	SCROPHULARIACEAE	6?	SU	
CASTILLEJA LONGISPICA	PDSCRØD1WØ	SCROPHULARIACEAE	6?	SU	
CASTILLEJA OCCIDENTALIS	PDSCRØD29Ø	SCROPHULARIACEAE	6?	S2	
CASTILLEJA RUSTICA	PDSCRØD2VØ	SCROPHULARIACEAE	6?	SU	
CEANOTHUS HERBACEUS	PDRHAØ4ØKØ	RHANNACEAE	65	SISH	
CELASTRUS SCANDENS	PDCELØ3Ø2Ø	CELASTRACEAE	65	SI	
CENTAURIUM EXALTATUM	PDGENØ2060	GENTIANACEAE	65	SISX	
CENTUNCULUS MINIMUS	PDPR181828	PRIMULACEAE	65	<b>S1</b>	

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STATE NAME	ELCOPT	FAMILY	GRANK	SRANK	FEDSTATUS
CERCOCARPUS MONTANUS VAR GLABER	DNDGCADASS	ROSACEAE	6?	Si	
CHAMAESYCE GEYERI		EUPHORBIACEAE	64	S1	
CHRYSOSPLENIUM TETRANDRUM		SAXIFRAGACEAE	6?	SI	
CHRYSOTHAMNUS LINIFOLIUS		ASTERACEAE	6?	SISH	
CIRSIUM BREVISTYLUM		ASTERACEAE	6?	S1	
CIRSIUM LONGISTYLUM		ASTERACEAE	620	520	
CIRSIUM SUBNIVEUM		ASTERACEAE	6?	SI	
CLARKIA RHOMBOIDEA		DNAGRACEAE	6?	Si	
CLAYTONIA LANCEOLATA VAR FLAVA		PORTULACACEAE	65T1	S10	C2
CLEOME LUTEA		CAPPARACEAE	6?	SI	or.
CONIOSELINUM SCOPULORUM	PDAPI@PØ4Ø		6?	Si	
CORDYLANTHUS CAPITATUS		SCROPHULARIACEAE	6?	Si	
CORDYLANTHUS RANOSUS		SCROPHULARIACEAE	6365	S2	
CORYDALIS SEMPERVIRENS		PAPAVERACEAE	6465	5152	
CRYPTANTHA CANA		BORAGINACEAE	63	53	
CRYPTANTHA FENDLERI		BORAGINACEAE	6?	SI	
CRYPTANTHA FLAVOCULATA		BORAGINACEAE	65	Si	
CRYPTANTHA HUMILIS		BORAGINACEAE	6?	51?	
CRYPTANTHA SOBOLIFERA		BORAGINACEAE	6264	Si	30
CRYPTANTHA SPICULIFERA		BORAGINACEAE	6?	SU	
CUSCUTA PENTAGONA		CONVOLVULACEAE	65	SISU	
CYMOPTERUS SP. NOV.	PDAPIGUX16		6?	SI	
CYPERUS ACUMINATUS		CYPERACEAE	6365	51	
CYPERUS ERYTHRORHIZOS	PMCYPØ6ØZØ	CYPERACEAE	65	SU	
CYPERUS RIVULARIS	PMCYPØ632Ø	CYPERACEAE	65	Si	
CYPERUS SCHWEINITZII	PMCYPØ636Ø	CYPERACEAE	65	S1	
CYPRIPEDIUM FASCICULATUM	PMORC#996#	ORCHIDACEAE	64	S1	30
CYPRIPEDIUM PARVIFLORUM	PMORC#999	ORCHIDACEAE	65?	52	
CYPRIPEDIUM PASSERINUM	PHORCEGGAS	ORCHIDACEAE	6465	SI	
CYSTOPTERIS MONTANA	PPASPØ8Ø5Ø	ASPLENIACEAE	65	SISU	
DALEA VILLOSA VAR VILLOSA	PDFAB1A102	FABACEAE	6?	SI	
DELPHINIUM ANDERSONII	PDRANGB036	RANUNCULACEAE	6?	SU	
DELPHINIUM BURKEI	PDRANGBØ9Ø	RANUNCULACEAE	6?	S1	
DELPHINIUM WOOTONII	PDRANGBOLO	RANUNCULACEAE	6?	SU	
DICHANTHELIUM OLIGOSANTHES	PMPOA249Q9	PDACEAE	65?	SISX	
DRABA APICULATA	PDBRA11050	BRASSICACEAE	6465	51	
DRABA BRACHYCARPA	PDBRA110J0	BRASSICACEAE	6465	SI	
DRABA DAVIESIAE	PDBRA112U€	BRASSICACEAE	62	<b>S2</b>	
DRABA FLADNIZENSIS	PDBRA11ØZØ	BRASSICACEAE	6?	Si	
DRABA MACDUNII	PDBRA111HØ	BRASSICACEAE	6?	Si	
DRABA PORSILDII	PDBRA11200	BRASSICACEAE	6?	SI	
DRABA VENTOSA	PDBRA112NØ	BRASSICACEAE	65	SI	
DROSERA LINEARIS	PDDR082868	DROSERACEAE	64	51	
DRYAS INTEGRIFOLIA	PDROSØLØ2Ø	ROSACEAE	65?	SI	
DRYOPTERIS CRISTATA	PPASP@C#8@	ASPLENIACEAE	65	SI	
ELATINE CALIFORNICA	PDELT02040	ELATINACEAE	6?	51	
ELODEA LONGIVAGINATA		HYDROCHARITACEAE	6?	SI	
ELODEA NUTTALLII		HYDROCHARITACEAE	65	S2	
EPIPACTIS GIGANTEA		ORCHIDACEAE	64	Si	
ERIGERON ALLOCOTUS	PDAST3M050	ASTERACEAE	6264	S2	3C

	STATE NAME	ELCODE	FAMILY	BRANK	SRANK	FEDSTATUS
	ERIGERON ASPERUGINEUS	PDAST3MØDØ	ASTERACEAE	64	Si	
	ERIGERON BELLIDIASTRUM	PDAST3MØJØ	ASTERACEAE	6?	SU	
	ERIGERON COULTERI	PDAST3#100	ASTERACEAE	6?	S152	
	ERIGERON EATONII SSP EATONII	PDAST3h171	ASTERACEAE	6?	S1?	
	ERIGERON EVERMANNII	PDAST3M1BØ	ASTERACEAE	6465	52	
	ERIGERON FLABELLIFOLIUS	PDAST3M1E@	ASTERACEAE	6?	S2	
	ERIGERON FLAGELLARIS	PDAST3M1FØ	ASTERACEAE	6?	Si	
	ERIGERON FORMOSISSIMUS VAR VISCIDUS	PDAST3M1K2	ASTERACEAE	6?	S1	
	ERIGERON GRACILIS		ASTERACEAE	64	S1	
	ERIGERON LACKSCHEWITZII		ASTERACEAE	610	510	
	ERIGERON LANATUS		ASTERACEAE	64	S2	
			ASTERACEAE	6?	SU	
	ERIOGONUN CHRYSOPS		POLYGONACEAE	GHQ	S2	CS
			POLYGONACEAE	6163	510	CS
			POLYGONACEAE	6?	S2	
				6?	SU	
	ERIOPHORUM ALPINUM		CYPERACEAE	65	SI	
	ERIOPHORUM VIRIDICARINATUM		CYPERACEAE	65	51	
	ERYTHRONIUM GRANDIFLORUM SSP CANDIDUM		LILIACEAE	6?	S2	
	EUPATORIUM MACULATUM VAR BRUNERI			65TU	Si	
	EUPATORIUM OCCIDENTALE		ASTERACEAE	6?	S1	
	EUPHRASIA DISJUNCTA		SCROPHULARIACEAE		S1	
	FESTUCA VIVIPARA	PN	POACEAE	60	510	N
	GENTIANA AQUATICA		GENTIANACEAE	6?	SI	34
	GENTIANA GLAUCA		GENTIANACEAE	6?	SI	
	GENTIANELLA PROPINQUA		GENTIANACEAE		5152	
	GENTIANELLA TENELLA			64	S2	
	GENTIANOPSIS CRINITA		GENTIANACEAE	6364	SU	
	GEOCAULON LIVIDUM		SANTALACEAE	64	SI	
	GEUM ROSSII VAR ROSSII	PDROSØSØE2		6465T		
			POLEMONIACEAE	6?T?	52?	
	GILIA TWEEDYI		POLEMONIACEAE	64650		
	GLANDULARIA BIPINNATIFIDA		VERBENACEAE	6?	SU	
	GOODYERA REPENS		ORCHIDACEAE	65	51	
			CHENOPODIACEAE		SU	
	GRAYIA SPINOSA GRINDELIA HOWELLII		ASTERACEAE	6? 62	52	CS
				65TU	S1	LE
	HALENIA DEFLEXA SSP DEFLEXA		GENTIANACEAE	6365	S1	
	HAPLOPAPPUS MACRONEMA		ASTERACEAE			
	HAPLOPAPPUS MULTICAULIS		ASTERACEAE	64	S1	
	HAPLOPAPPUS NANUS		ASTERACEAE	6?	51	
	HAPLOPAPPUS PYGMAEUS		ASTERACEAE	6?	S1	
	HEDYSARUM ALPINUM	PDFAB1Z#1#		65	SU	
	HEMICARPHA DRUMMONDII		CYPERACEAE	6?	SU	
,	HETEROCODON RARIFLORUM		CAMPANULACEAE	6?	SI	
	HOWELLIA AQUATILIS		CAMPANULACEAE	61	SI	C5
	HYMENOPAPPUS FILIFOLIUS VAR IDAHOENSIS		ASTERACEAE	6264T	SU	30
	HYMENOPAPPUS FILIFOLIUS VAR LUTEUS		ASTERACEAE	6?	SU	
	HYKENOPAPPUS TENUIFOLIUS		ASTERACEAE	6?	SU	
	IDAHOA SCAPIGERA		BRASSICACEAE	6?	S1	
	IPOMOPSIS CONGESTA SSP CREBRIFOLIA	LDLF409035	POLEMONIACEAE	6?	SI	

STATE NAME	•	ELCODE	FAMILY	GRANK	SRANK	FERSTATUS
	MILA NATUS CENS MIS NEUS LEI VAR OBTUSATUS I UMIS TEOSPERNA LIOIDES LORA IRICA PLICIUSCULA CANA ANDICA USATUS TANUM VAR HONTANUM N CAESPITOSUM CARINATA HUMILIS KLAUSII DCCIDENTALIS MBIANA VAR WALLOWENSIS SCENS ATUS ILICINUM DORTERI ERTICILLATUM OIDES BIANUM TTALLII SSP NUTTALLII NA ATA	•				
IPONOPSIS PU	MILA	PDPLM060E0	POLEMONIACEAE	6?	S1	
JUNCUS ACUMI	NATUS	PMJUN@1030	JUNCACEAE	65	51	
JUNCUS ALBES	CENS	PHILINGIGAG	JUNCACEAE	67	Si	
JUNCUS BIGLU	MIS	PMJUNG16B6	JUNCACEAE	67	52	
JUNCUS CASTA	NEUS	PHILINGIAPA	JUNCACEAE	67	S2	
JUNCUS COVIL	LET VAR OBTUSATUS	PHILING 1 6V2	JUNCACEAE	67	SI	
JUNCUS HALLI	I	PHILINGITE	JUNCACEAE	6?	SI	
JUNCUS TRIGI	UNIS	PMJUNG1276	JUNCACEAE	67	52?	
JUNIPERUS OS	TEOSPERMA	PGCUP#5#A#	CUPRESSACEAE	67	SU	
KELLOGGIA GA	LIGIDES	PDRUB12616	RUBIACEAE	67	51	
KELSEVA IINTE	LORA	PDROSAVAIA	ROSACEAE	67	SUSA	
KORRESTA STR	IRICA	PMCYPAFAPA	CYPERACEAE	67	Si	
KORRESIA SIM	PI TOTUSCUI A	PNCYPAFARA	CYPERACEAE	65	Si	
KUCHIA AMERI	ΓΔΝΔ	PUCHERERIA	CHENDPODIACEAE	67	Si	
KOENISIA ISI	ΔΝΠΙΓΔ	Phoenangia	DUI ABUNDLEVE	64	S2	
I ATHVRUS RIT	μεστισ	PREARSSALA	FARACEAE	67	SI	
I EDINIUM MON	TANIIN UAD MONTANIIM	PREPAING A	RPASSICACEAE	62	Si	
i EPTGDACTVI G	N CAESPITAGIN	Phol Marai a	PRI ENGNIACEAE	67	51	
I ESCHERELLA	CARINATA	PREPAINARA	RRASSICACEAE	6264	Si	3C
I ESOUERELLA	WHITE IS	PRRAINIVA	RRASSICACEAE	61	SI	00
I ESQUEREL I A	KI AUSTI	PRRAIN176	RRASSICACEAE	61	SI	
I FSOUFRELLA	DECEMBERTAL IS	PORRAIN176	RRASSICACEAE	67	Si	
I FUISTA COLU	MRIANA VAR MALLOMENSIS	PDPDRAAA33	PUBLIN PLACEDE	GATA	Si	30
LEWISTA COLO	SCENS	PMPNAPH#7#	PRACEAE	64	SI	30
LEVAUS THINDU	ATIIS	PHPNAPHAAA	POACEAE	67	SI	
LIGHSTICHM F	TI TOTNIM	PRAPITIONS	ΔΡΙΔΓΕΔΕ	F.7	SI	
LIGHSTICH P	ORTERI	PDAP118484	ΑΡΙΔΓΕΔΕ	6465	SI	
LIGHSTICHM V	ERTICILI ATUM	PRAPITRARA	ΑΡΙΔΟΕΔΕ	6465	5253	
LILAFA SCILL	OIDES	PHSCHAIAIA	SCHEUCHZERIACEAE	67	Si	
THE TON COLUM	RTANIIM	PHI II 14454	I II TACEAE	67	SI	
I INANTHUS NU	TTALLIT SSP NUTTALLIT	PDPI MASAVI	POLEMONTACEAE	G?T?	S2	
LINARIA TEXA	NA	PRICEILANA	SCROPHULARIACEAE	6465	SI	
LOBELIA SPIC	ΔΤΔ	PDCAMAF19A	CAMPANULACEAE	65	SI	
	DLOR VAR BICOLOR	PDAPI18021		6?	S2	
LOMATIUM GEY		PDAPI1BØNØ		G?	51	
LYCOPODIUM A			LYCOPODIACEAE	6?	S1S2	
LYCOPODIUM O			LYCOPODIACEAE	65	SU	
MACHAERANTHE			ASTERACEAE	6?	SU	
MADIA MINIMA			ASTERACEAE	6?	SU	
	CANADENSE VAR INTERIUS	PMLIL1D#12		65?TU		
	SONCHOIDES VAR TORREYI		ASTERACEAE	6?	SI	
MENTZELIA NO		PDLCA63116		64	SU	
MENTZELIA NU	DA	PDL0A03150		6?	SU	
MENTZELIA PUI		PDL0A03160		6?	51	
MERTENSIA BE	LLA		BORAGINACEAE	64	SI	
MINULUS GLAB			SCROPHULARIACEAE	65	SU	
MINULUS NANU			SCROPHULARIACEAE	6?	\$1\$2	
MINULUS PRIN	JLOIDES		SCROPHULARIACEAE	6?	Si	
MIRABILIS HI	RSUTA		NYCTAGINACEAE	6?	SI	
NUHLENBERGIA	ANDINA	PMP0A48#1#	POACEAE	64	<b>S2</b>	

NUMERMEERSIA MINUTISSINA						
NUMERBERSIA MINUTISSINA   PMPDABABIS PORCEAE   64   SI   MYOSOTIS VERNA   PDBORRPROB BORRADINACEAE   67   SU   MAJAS GUARALLERISS   PMAJABLESS MAJABACEAE   65   SI   MYOSOTIS VERNA   PDBORRPROB BORRADINACEAE   65   SI   MYOSOTIS VERNA   PDBORRPROB BORRADINACEAE   65   SI   MYOSOTIS VERNA   PDBORRAGE   PMANTASSEM WINDERSTAND   PMANTASSEM WINDERSTAND   PMANTASSEM WINDERSTAND   PMANTASSEM WINDERSTAND   PMANTASSEM WINDERSTAND   PMANTASSEM WINDERSTAND   PMANTASSEM PMAJABACEAE   65   SI   DORDERSTAND WINDERSTAND   PMANTASSEM PMAGACEAE   67   SI   DORDERSTAND WINDERSTAND   PMAGACEAE   FARACEAE   67   SI   DORDERSTAND   PMAGACEAE   FARACEAE   67   SI   PMAGACEAE   FARACEAE   FARA		ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
NYBOTIS VERNA	*					
NYSSOTIS VERNA	MUHLENBERGIA MINUTISSIMA	PMPDA48130	POACEAE	64	S1	
MAJAS BIADALUPERSIS   PHNAJE1858 MAJADACEAE   65   51	MYDSDTIS VERNA					
NYMPHEAD RETRIAGONA   PROVINCIONED RATE   PRODUCTION	NAJAS BUADALUPENSIS					
DENOMACONZ DIMAGRACEAE   647-80   10   10   10   10   10   10   10						
POPINEGUSSUM VULGATUM						
ORDBANCHE CORYMBUSA         PUDROBANCHE CORYMBUSA         6?         SI           ORGBERTIA LINEARIFOLIA         PPARFILIZEE         6?         SI           DYTROPIS COLUMBIANA         PPAREZESSE FABACEAE         6?         SI           DYTROPIS COLUMBIANA         PPAREZESSE FABACEAE         6?         SI           DYTROPIS LAGOPUS VAR CONJUGENS         PPAREZESSE FABACEAE         6?         SI           DYTROPIS LAGOPUS VAR CONJUGENS         PPAREZESSE FABACEAE         6?         SI           PAPAVER ALPINUM         PPARPHREB PAPAVERRACEAE         65         SI           PAPAVER ALPINUM         PPARPHREB PAPAVERRACEAE         65         SI           PEDICULARIS CONTORTA VAR CITEMOPHORA         PPOSCRIKROS SCROPHULARIACEAE         67         SI           PEDICULARIS DEUERI         PPOSCRIKROS SCROPHULARIACEAE         67         SI           PENSTERION TERVESCHIS         PPOSCRILARIO SCROPHULARIACEAE         67         SI           PENSTERION TERVESCHIS         PPOSCRILARIO SCROPHULARIACEAE         64         SI           PENSTERION LARICIFULIUS         PPOSCRILARIO SCROPHULARIACEAE         64         SI           PENSTERION HAIPLEANUS         PPOSCRILARIO SCROPHULARIACEAE         64         SI           PENSTERION LARICIFULIA         PPOSCRILARIO SCROP				_ , ,		
DROBENIA LINEARIFOLIA						
DYYTROPIS COLUMBIANA						
0XYTROPIS LAGOPUS VAR CONJUGENS         PDFABZXBAR FABRACEAE         6?         SU           0XYTROPIS PODOCARPA         PDFABZXBAR FABRACEAE         6?         SI           PAPAWER ALPPONICUM         PDPABHBBB PAPAWERACEAE         65         S2           PAPAWER LAPPONICUM         PDBCRIKBYB SCROPHULARIACEAE         67         SU           PEDICULARIS CONTORTA VAR CUELONDA         PDSCRIKBYB SCROPHULARIACEAE         67         SU           PEDICULARIS CONTORTA VAR RUBICUNDA         PDSCRIKBYB SCROPHULARIACEAE         67         SU           PEDICULARIS CONTORTA VAR RUBICUNDA         PDSCRIKBYB SCROPHULARIACEAE         67         SC           PENSTENON ATTENUATUS VAR MILITARIS         PDSCRILBB SCROPHULARIACEAE         67         SC           PENSTENON ATTENUATUS VAR MILITARIS         PDSCRILBB SCROPHULARIACEAE         68         SC           PENSTENON LARICIFOLIUS         PDSCRILBB SCROPHULARIACEAE         67         SC           PENSTENON LEMISCHENDIS         PDSCRILBB SCROPHULARIACEAE         63         SC           PENSTENON PAYETTENSIS         PDSCRILBB SCROPHULARIACEAE         63         SI           PENSTENON PAYETTENSIS         PDSCRILBB SCROPHULARIACEAE         63         SI           PENSTENON PAYETTENSIS         PDSCRILBB SCROPHULARIACEAE         63         SI						
DXYTROPIS PODDCARPA						
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PAPAVER LAPPONICUM						
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PEDICULARIS GEDERI         PDSCRIK®R® SCRUPHULARIACEAE         67         \$2           PENSTERON ATTENUATUS VAR MILITARIS         PDSCRILLB® SCRUPHULARIACEAE         6474         \$1           PENSTERON CARYI         PDSCRILLB® SCRUPHULARIACEAE         6263         \$2           PENSTERON LARICIFOLIUS         PDSCRILLB® SCRUPHULARIACEAE         67         \$2           PENSTERON LARICIFOLIUS         PDSCRILLB® SCRUPHULARIACEAE         63         \$2           PENSTERON LARICIFOLIUS         PDSCRILLB® SCRUPHULARIACEAE         63         \$2         C2           PENSTERON PAYETTENSIS         PDSCRILLB® SCRUPHULARIACEAE         63         \$2         C2           PENSTERON WHIPPLEANUS         PDSCRILLB® SCRUPHULARIACEAE         63         \$1           PHACELIA INCANA         PDDVYBOCCES® HYDROPHYLLACEAE         63         \$1           PHACELIA INCANA         PDHYBOCCES® HYDROPHYLLACEAE         67         \$1           PHACE						
PENSTEMON ATTENUATUS VAR MILITARIS         PDSCRILØHZ SCROPHULARIACEAE         6474         \$1           PENSTEMON CARYI         PDSCRILBØ SCROPHULARIACEAE         6623         \$2           PENSTEMON FLAVESCENS         PDSCRILBØ SCROPHULARIACEAE         662         \$2           PENSTEMON LARICIFOLIUS         PDSCRILBØ SCROPHULARIACEAE         64         \$2           PENSTEMON LEMHLENSIS         PDSCRILBØ SCROPHULARIACEAE         63         \$2         C2           PENSTEMON PAPPTETRBIS         PDSCRILBØ SCROPHULARIACEAE         65         \$1           PENSTEMON PAPPTETRBIS         PDSCRILBØ SCROPHULARIACEAE         65         \$1           PHACELIA INCANA         PDSCRILBØ SCROPHULARIACEAE         65         \$1           PHACELIA INCANA         PDHYDØC27Ø HYDROPHYLLACEAE         65         \$1           PHACELIA THERMALIS         PDHYDØC27Ø HYDROPHYLLACEAE         67         \$1           PHLOX ANDICOLA         PDPLNØDBØBØ POLEMONIACEAE         67         \$1           PHLOX MISSOULENSIS         PDPLNØDBØBØ POLEMONIACEAE         67         \$1           PHYSALIS PUMILA         PDSOLØSØBØ SOLANACEAE         67         \$2           PHYSALIS PUMILA         PDSOLØSØBØ SOLANACEAE         67         \$2           PHYSARIIS PUMILA         PDSOLØSØBØ SOLANAC						
PENSTEMON CARYI   PENSTEMON FLAVESCENS   POSCRILER® SCROPHULARIACEAE   67 S2						
PENSTERON FLAVESCENS						30
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PTERYXIA HENDERSONII PDAPI1XØ2Ø APIACEAE 6? S2SU PTERYXIA TEREBINTHINA VAR CALCAREA PDAPI1XØ41 APIACEAE 6? SU						
PTERYXIA TEREBINTHINA VAR CALCAREA PDAPI1XØ41 APIACEAE 6? SU						
					51?	

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
RANUNCULUS CARDIOPHYLLUS RANUNCULUS GELIDUS RANUNCULUS JOVIS RORIPPA CALYCINA RUBUS URSINUS SAGINA NIVALIS SALIX BARRATTIANA SALIX SERISSIMA SALIX MOLFII VAR WOLFII SATUREJA DOUGLASII SAUSSUREA NUDA VAR DENSA SAUSSUREA WEBERI SAXIFRAGA APETALA SAXIFRAGA CHRYSANTHA SAXIFRAGA TOLMIEI VAR LEDIFOLIA SCIRPUS CYPERINUS SCIRPUS HETEROCHAETUS SCIRPUS NEVADENSIS SCIRPUS SUBTERMINALIS SEDUM DEBILE SELAGINELLA SELAGINOIDES SELAGINELLA WATSONII SENECIO AMPLECTENS VAR HOLMII SENECIO DEBILIS SENECIO FUSCATUS SENECIO PAUCIFLORUS SHOSHONEA PULVINATA SILENE SPALDINGII SOLIDAGO PTARMICOIDES SOLIDAGO SPARSIFLORA SPHAERALCEA MUNROANA SPHAEROMERIA CAPITATA SPHENOPHOLIS OBTUSATA VAR MAJOR SPOROBOLUS NEGLECTUS SPOROBOLUS NEGLECTUS SPOROBOLUS NEGLECTUS SPOROBOLUS NEGLECTUS STANLEYA TOMENTISOA					
RANUNCULUS CARDIOPHYLLUS	PDRANGLØKØ	RANUNCULACEAE	6?	Si	
RANUNCULUS GELIDUS	PDRANGLØYØ	RANUNCULACEAE	64	51	
RANUNCULUS JOVIS	PDRANGL1DØ	RANUNCULACEAE	6?	Si	
RORIPPA CALYCINA	PDBRA27646	BRASSICACEAE	62	S2	C5
RUBUS URSINUS	PDROS1K7XØ	ROSACEAE	6?	52	
SAGINA NIVALIS	PDCAR@P@7@	CARYOPHYLLACEAE	6?	SI	
SALIX BARRATTIANA	PDSAL020D0	SALICACEAE	6?	Si	
SALIX SERISSIMA	PDSALØ22PØ	SALICACEAE	64	SI	
SALIX WOLFII VAR WOLFII	PDSAL#2341	SALICACEAE	6365T?	Si	
SATUREJA DOUGLASII	PDLAM1T#2#	LAMIACEAE	6?	S1?	
SAUSSUREA NUDA VAR DENSA	PDAST8BØ51	ASTERACEAE	6365TU	51	
SAUSSUREA WEBERI	PDASTBB#6#	ASTERACEAE	64	51	30
SAXIFRAGA APETALA	PDSAXØU22Ø	SAXIFRAGACEAE	6?	S2	
SAXIFRAGA CHRYSANTHA	PDSAXØUØDØ	SAXIFRAGACEAE	6?	<b>S1</b>	
SAXIFRAGA TEMPESTIVA	PDSAX@U1R@	SAXIFRAGACEAE	62	52	
SAXIFRAGA TOLMIEI VAR LEDIFOLIA	PDSAXØU1U1	SAXIFRAGACEAE	6515	52	
SCIRPUS CYPERINUS	PMCYP@Q@F@	CYPERACEAE	65	Si	
SCIRPUS HETEROCHAETUS	PMCYPGQGTG	CYPERACEAE	65	53	
SCIRPUS NEVADENSIS	PMCYPØQ13Ø	CYPERACEAE	64	5152	
SCIRPUS SUBTERMINALIS	PMCYP@Q16@	CYPERACEAE	6465	51	
SEDUM DEBILE	PDCRAØAØ9Ø	CRASSULACEAE	6465	S1	
SELAGINELLA SELAGINOIDES	PPSELØ111Ø	SELAGINELLACEAE	65	Si	
SELAGINELLA WATSONII	PPSELØ11DØ	SELAGINELLACEAE	6465	51	
SENECIO AMPLECTENS VAR HOLMII	PDAST8HØ22	ASTERACEAE	6?	SI	
SENECIO DEBILIS	PDASTBH11#	ASTERACEAE	6365	51	
SENECIO FUSCATUS	PDAST8H1E#	ASTERACEAE	6?	S2	
SENECIO PAUCIFLORUS	PDAST8H2D#	ASTERACEAE	6465	SI	
SHOSHONEA PULVINATA	PDAP126010	APIACEAE	61	51	CS
SILENE SPALDINGII	PDCARØU15Ø	CARYOPHYLLACEAE	65	SI	CS
SULIDAGU PTARMICOIDES	PDAST8P1FØ	ASTERACEAE	65	51	
SOLIDAGO SPARSIFLORA	PDAST8P1VØ	ASTERACEAE	6?	SU	
SPHAERALCEA MUNRUANA	PDMAL140F0	MALVACEAE	6?	51	
SPHAERUMERIA CAPITATA	PDAS185939	ASTERACEAE	6364	52	
SPHENUPHULIS UBTUSATA VAK MAJUK	PMPUA51931	PUACEAE	6?	52	
SPURUBULUS MEBLECTUS	PMPUASVOLD	PUACEAE	65	SU	
SPOROBOLUS VAGINIFLORUS	PMPDA5VØXØ	PUACEAE	65	SU	
STANLEYA TOMENTOSA	PUBRAZENON	BRASSICACEAE	64	51	
STHREETH VIKIDIFLORM	LADUHCEROR	BRHSSICHLEHE	04	51	
STELLARIA SINCOEI		CARYOPHYLLACEAE		S10	
STEPHANOMERIA SPINOSA	PDASTBUØE#			S2	
STIPA LETTERMANII	PMPDA5X6H6			SU	
STIPA THURBERIANA	PMPOA5X12Ø			SU	
STREPTANTHELLA LONGIROSTRIS		BRASSICACEAE		SI	00
SULLIVANTIA HAPENANII		SAXIFRAGACEAE		51	30
SYNTHYRIS CAMBYI		SCROPHULARIACEAE		S2	30
SYNTHYRIS MISSURICA		SCROPHULARIACEAE		51	
TARAXACUM ERIOPHORUM	PDAST93666			S1	
TETRANEURIS TORREYANA	PDAST539MØ			51	
THELYPODIUM PANICULATUM THELYPODIUM SAGITTATUM SSP SAGITTATUM		BRASSICACEAE		SI	
INCTILANTAL SHOTLINIAN 226 246TILLUN	LARKHSMAFS	BRASSICACEAE	6?	SU	

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
THELYPTERIS PHEGOPTERIS	.PPASPØX13Ø	ASPLENIACEAE	65	Si	
THLASPI PARVIFLORUM		BRASSICACEAE		SU	
TIARELLA TRIFOLIATA VAR TEIFOLIATA	PDSAX16631	SAXIFRAGACEAE	6575	S152	
TOFIELDIA PUSILLA	PHLIL1Y848		6465	SI	
TOWNSENDIA CONDENSATA	PDAST9C#4#	ASTERACEAE	6?	SI	
TOWNSENDIA FLORIFER		ASTERACEAE	6?	SI	•
TOWNSENDIA INCANA	PDAST9C#D#	ASTERACEAE	6?	\$152	
TOWNSENDIA LEPTOTES		ASTERACEAE	6?	SU	
TOWNSENDIA SPATHULATA	PDAST9C@M@	ASTERACEAE	63	S2	30
TRADESCANTIA BRACTEATA	PMCOM@B@1@	COMMELINACEAE	6365	SU	
TRIFOLIUM ERIOCEPHALUM SSP ARCUATUM	PDFAB400V1	FABACEAE	6?	51	
TRIFOLIUM GYMNOCARPON	PDFAB46116	FABACEAE	6?	SU	
TRIGLOCHIN CONCINHUM VAR DEBILE	PMSCH#3#12	SCHEUCHZERIACEAE	6?T?	52	
TRISETUM ORTHOCHAETUM	PMPOA69ØAØ	POACEAE	6HQ	SISH	C2*
UTRICULARIA INTERMEDIA	PDLNTØ2ØAØ	LENTIBULARIACEAE	65	Si	
VACCINIUM MYRTILLOIDES	PDERI186M6	ERICACEAE	65	S1	
VERATRUM CALIFORNICUM	PML1L25020	LILIACEAE	65	SISU	
VERBESINA ENCELIGIDES	PDAST9R#6#	ASTERACEAE	6?	SU	
VIBURNUM LENTAGO	PDCPR#7#B#	CAPRIFOLIACEAE	65	51	
VIOLA RENIFOLIA	PDV10641V6	VIOLACEAE	65	SI	
WOLFFIA BRAZILIENSIS	PMLEN93949	LEHNACEAE	65	<b>S1</b>	
WOLFFIA COLUMBIANA	PHLEH#3#3#	LENNACEAE	65	S2	
WYETHIA SCABRA VAR SCABRA	PDAST9XØE3	ASTERACEAE	6?	SI	
XYLORHIZA GLABRIUSCULA	PDASTA1838	ASTERACEAE	6365	Si	
ZIZIA AUREA	PDAP12F@2@	APIACEAE	65	SU	
ZOSTERELLA DUBIA	PMPON96916	PONTEDERIACEAE	6?	51	